

Abstract

Flat surface loudspeaker, and a method for its operation

A method for operation of a flat surface loudspeaker (1) is disclosed, in which at least one oscillating coil (3, 4) is mounted on a surface (2) in the form of a plate and having predetermined material characteristics, which surface (2) is caused to oscillate by the at least one oscillating coil, which is stimulated electrically by a sound source (7). The acoustic frequency response of this flat surface loudspeaker is measured, and the inverse frequency curve to this frequency curve is determined. This inverse frequency curve is simulated in a filter device (8) as its transfer function. In the operating arrangement, this filter device is connected between the sound source (7) and the flat surface loudspeaker (1), so that the frequency response of the flat surface loudspeaker is compensated for by its transfer function. This frequency response compensation for the flat surface loudspeaker makes it possible to improve its transmission characteristics such that even hifi requirements can be satisfied.

Significant figure: Figure 2